

# IAN 2006 DRAFT AGENDA

20 min talks + 5 min questions

Monday October 23rd 2006	Time	Tuesday October 24th 2006	Time	Wednesday October 25th 2006	Time
Registration/Poster Set up	7:30 - 8:30	Registration	7:30 - 8:30	Registration	7:30 - 8:30
<b>Al Ekkebus, Oak Ridge National Laboratory: Welcoming Presentation</b>	<b>8:20 - 8:30</b>				
<b>Opening presentation: Ian Anderson, Oak Ridge National Laboratory - Introduction and SNS overview</b>	<b>8:30 - 9:00</b>				
<b>Session MO1: Neutron Imaging Techniques and Challenges I, Chair: E. Lehmann, Paul Scherrer Institut</b>		<b>Session TU1: Cultural Heritage, Chair: C. Andreani, Universita degli Studi di Roma Tor Vergata</b>		<b>Session WE1: Molecular and Cellular Biology, Chair: M. Vannier, University of Chicago</b>	
R. Gaehler, Institut Laue-Langevin - 3D imaging techniques: a comparison	9:00 - 9:25	G. Gorini, Universita degli Studi di Milano, Bicocca - Imaging with epithermal neutrons for Cultural Heritage Research	8:30 - 8:55	G. McDermott, Lawrence Berkeley Laboratory - Cryo X-ray tomography of whole cells at 50 nm resolution	8:30 - 8:55
R. McGreevy, Rutherford Appleton Laboratory - Neutron Scattering as Imaging	9:25 - 9:50	R. Rosa, Ente per le Nuove Tecnologie l'Energia e l'Ambiente, Centro Ricerche Casaccia - Thermal Neutron Tomography: Archeological and Geological Investigations	8:55 - 9:20	O. Shen, Argonne National Laboratory - TBD (Synch applications)	8:55 - 9:20
G. Frei, Paul Scherrer Institut - Beam line design and the example of ICON	9:50 - 10:15	E. Deschler, Universitaet Zuerich - The Study of Roman Bronze Sculptures from Switzerland by Neutron Tomography	9:20 - 9:45	J. Katsaras, Canadian Neutron Beam Centre - Prospective Applications of Neutron Holography in Biology	9:20 - 9:45
N. Kardjilov, Hahn-Meitner-Institut Berlin - Absorption and phase contrast neutron imaging (overview)	10:15 - 10:40	<b>BREAK - 20 min</b>	9:45 - 10:05	H. Stuhmann, Institut de Biologie Structurale, Grenoble - TBD	9:45 - 10:10
<b>BREAK - 20 min</b>	10:40 - 11:00			<b>BREAK - 20 min</b>	10:10 - 10:30
<b>Session MO2: Neutron Imaging Techniques and Challenges II, Chair: B. Schillinger, Technische Universitaet Muenchen</b>		<b>Session TU2: Medical and Biomedical, Chair: D. Myles, Oak Ridge National Laboratory</b>		<b>Session WE2: Physics, Chemistry, and Geology, Chair: L. Butler, Louisiana State University</b>	
T. Buecherl, Technische Universitaet Muenchen - Fast Neutron Radiography	11:00 - 11:25	A. Kapadia, Duke University - Neutron Stimulated Emission Computed Tomography	10:05 - 10:30	D. Sumner, University of California, Davis - Neutron imaging and geology	10:30 - 10:55
T. Kamiyama, Hokkaido University - Tomography with epithermal neutrons	11:25 - 11:50	K. Riley, Massachusetts Institute of Technology - TBD (Track-etch technique (sort of imagining) used to assess dose associated with BNCT)	10:30 - 10:55	T. Nakanishi, University of Tokyo - Highly sensitive real-time imaging system using conventional RI	10:55 - 11:20
T. Cremer, Adelphi Technology Inc. - Thermal Neutron Microscopy	11:50 - 12:15	K. Watkin, University of Illinois, Urbana - Multimodal contrast agents	10:55 - 11:20	R. Triolo, Universita degli Studi di Palermo - Fingerprinting Marbles by Combining Neutron Diffraction and Imaging	11:20 - 11:45
J. Brenizer, Pennsylvania State University - TBD	12:15 - 12:40	M. Vannier, University of Chicago - Imaging with Biomarkers	11:20 - 11:45	P. Lehmann, Eidgenoessische Technische Hochschule Zuerich - TBD	11:45 - 12:10
		W. Warren, Duke University - State of the art and limitations in MRI and optical microscopy	11:45 - 12:10		
				<b>K. Herwig, Oak Ridge National Laboratory - TBD (Closing Remarks)</b>	<b>12:10 - 12:30</b>
Discussion and Lunch - 1h 20 min	12:40 - 14:00	Discussion and Lunch - 1h 20 min	12:10 - 13:30	Discussion and Lunch (Poster Removal) - 1h 30 min	12:30 - 14:00
<b>Session MO3: Challenges and Opportunities, Chair: R. McGreevy, Rutherford Appleton Laboratory</b>		<b>Session TU3: Engineering, Chair: C. Hubbard, Oak Ridge National Laboratory</b>		<b>Tour SNS and/or HFIR</b>	<b>14:00-16:00</b>
R. Gaehler, Institut Laue-Langevin - TBD	14:00 - 14:25	J. Root, Canadian Neutron Beam Centre - Materials Science and Engineering requirements and opportunities for neutron radiography and tomography	13:30 - 13:55		
W. Kockelmann, Rutherford Appleton Laboratory - Energy selective imaging at a pulsed source/imaging using geometric aberration	14:25 - 14:50	D. Penumadu, University of Tennessee, "Complex Multi-Phase Flow Visualizations and Implications to Metal Casting Using Neutrons"	13:55 - 14:20		
G. Granroth, Oak Ridge National Laboratory - Neutron MRI	14:50 - 15:15	B. Schillinger, Technische Universitaet Muenchen - Neutron real-time radiography at FRM-II and future needs	14:20 - 14:45		
R. Cooper, Oak Ridge National Laboratory - Detectors for imaging at a pulsed source	15:15 - 15:40	<b>BREAK - 20 min</b>	14:45 - 15:05		
<b>BREAK - 20 min</b>	15:40 - 16:00				
<b>Session MO3 cont'd: Challenges and Opportunities, Chair: R. McGreevy, Rutherford Appleton Laboratory</b>		<b>Session TU4: Materials Research, Energy, Fuel Cells, and Aerospace, Chair: D. Penumadu, University of Tennessee - Knoxville</b>			
F. Pfeiffer, Paul Scherrer Institut - TBD	16:00 - 16:25	E. Lehmann, Paul Scherrer Institut - Energy, Fuel Cell and Engineering Imaging at PSI	15:05 - 15:30		
W. Treimer, University of Applied Sciences (TFH) Berlin & Hahn-Meitner-Institute - Refraction and USANS - Tomography	16:25 - 16:50	M. Arif, National Institute for Standards and Technology - Engineering and in situ neutron imaging techniques for fuel cells	15:30 - 15:55		
J.K. Zhao, Oak Ridge National Laboratory - TBD (Polarized targets)	16:50 - 17:15	G. Ice, Oak Ridge National Laboratory - Optics and techniques for diffraction and contrast imaging	15:55 - 16:20		
M. Agamalian, Oak Ridge National Laboratory - Visualization of combined ultra-small and small angle neutron scattering (USANS/SANS) data from hierarchical structures	17:15 - 17:40	<b>BREAK - 20 min</b>	16:20 - 16:40		
H. Lee, Oak Ridge National Laboratory - Spin contrasts for neutron imaging	17:40 - 18:05				
<b>BREAK - 25 min</b>	18:05 - 18:25	<b>Session TU5: Homeland Security and Contraband Detection, Chair J. White, Oak Ridge National Laboratory</b>			
<b>Discussion (Dinner) and Special Guest Speaker</b>		J. Jones, Idaho National Laboratory - TBD (Homeland Security)	16:40 - 17:05		
P. Walter, Centre de Recherche et de Restauration des Musees de France - Le Louvre - TBD (Comparison X-ray/neutron imaging for Cultural Heritage Research)	18:25 - 20:00	S. Pozzi, Oak Ridge National Laboratory - Analysis of photon interrogation of nuclear materials for nonproliferation applications	17:05 - 17:30		
		R. Lanza, R. Lanza, Massachusetts Institute of Technology - Fast Neutron Resonance Radiography for Detection of Explosives and Contraband	17:30 - 17:55		
		F. Merrill, Los Alamos National Laboratory - TBD (Proton radiography)	17:55 - 18:20		
		<b>Discussion (Buffet Dinner)</b>	18:20 - 19:30		
<b>Poster Session</b>	20:00 - 21:30	<b>Joint Sessions Highlights - Challenges and Opportunities</b>	19:30 - 21:30		